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CC: EM Group Senior Staff Meeting [EMGroupSeniorStaffMtg@ncdps.gov]
Subject: (U) Infrastructure Impact Assessment (IIA)
Attachments: Hurricane+Harvey+-+Government+Facilities+and+EMS+%28FOUO%29.pdf; Hurricane+Harvey+-+Dams+%28FOUO%29.pdf; Hurricane+Harvey+-+Transportation+Systems+%28FOUO%29.pdf; Hurricane+Harvey+-+Healthcare+and+Public+Health+%28FOUO%29.pdf

Team –

Latest from FEMA Region IV Watch Unit in Atlanta –

Bottom line – no predicted significant impacts on our Region. We are keeping a close watch on effects on petroleum industry. We are also monitoring a Tropical Disturbance off the coast of Florida which is supposed to brush by NC coast later next week.

This is the latest from our partner David McGowan (NC Petroleum Council/American Petroleum Institute):

“The only real update I have this morning is that as of 10:30, Colonial (Pipeline) was operating normally with no issues reported on their system yet. They are actively monitoring and prepared to deploy resources as needed to ensure continuous flow.”

**Thanks!
Mike**

From: FEMA-R4-WatchUnit [<mailto:FEMA-R4-WatchUnit@fema.dhs.gov>]
Subject: (U) Infrastructure Impact Assessment (IIA)

The below summary was extracted from the attached OCIA Infrastructure Impact Assessment (IIA) reports, which includes potential impacts to Critical Infrastructures related to Hurricane Harvey. Harvey is expected to produce total rain accumulations of 15 to 30 inches and isolated maximum amounts of 40 inches over the middle and upper Texas Coast through next Wednesday.

--- No potential significant impacts have been identified for FEMA Region IV at this time. RIVWC is not aware of any additional request for support needed from FEMA RIV or RIV States.

Government Facilities and EMS:

- OCIA assesses that Hurricane Harvey will have high local impacts and low national impacts to the Government Facilities and Emergency Services Subsector
- Government facilities will be impacted by sustained winds, flooding and related power outages. State and local governments will likely be able to continue providing essential services.
- The Emergency Services Sector is unlikely to experience significant disruptions to operations

Riverine Flooding on Oil and Natural Gas:

- Two refineries are located in areas that are modeled to receive 8 to 12 feet of flooding
- Twenty petroleum or petroleum product facilities (e.g., gasoline, diesel) are in areas modeled to receive 8 to 15 feet of flooding
- No natural gas facilities are in areas directly at risk

Dams:

- OCIA assesses that Hurricane Harvey will have moderate to high local impacts and low national impacts to the Dams Sector
- The greatest potential cause of impacts to dams is extended periods of heavy inland rainfall
- OCIA flood modeling identified 25 high hazard dams with maximum storage capacities greater than 5,000 acre-feet are located in areas estimated to have flood inundation over 4 feet. The majority of these dams are used for recreational purposes.
- Near-real time reservoir water levels from the Texas Water Development Board indicate that 32 of the 121 monitored reservoirs are currently at 100 percent of their capacity, as of August 25, 2017

Transportation Systems:

- Transportation disruptions may cause short-term interruption in local supply chains. Affected supply chains will likely recover as the storm passes, with no long-term impacts to supply chains anticipated.
- Limited-to-moderate physical damage is anticipated to port facilities along the Texas Coast—the center of U.S. imports and exports of crude oil and refined petroleum products
- The Corpus Christi International Airport has been closed and is expected to re-open on 28 August. The George Bush Intercontinental Airport and the William P. Hobby Airport in Houston are experiencing flight delays and cancellations.

Healthcare and Public Health:

- OCIA assesses that there will be a minimal to moderate regional impact to the Healthcare and Public Health Sector in the Gulf Coast region from Hurricane Harvey
- OCIA modeling estimates 8 hospitals (with 100 beds or more) and 27 nursing homes (with 50 beds or more) could be impacted by inland flooding of 3 feet or more. There are 2,985 hospital beds and 2,950 nursing home beds in the projected affected facilities.
- OCIA electric power outage modeling identifies 5 hospitals (with 70 beds or more) and 18 nursing homes (with 100 beds or more) in the 50 percent or greater electric power outage zone. There are 986 hospital beds and 2,574 nursing home beds in the projected affected area.
- Hospitals that lose electric power in the Texas Gulf Coast region should be able to continue operating on backup power (i.e., batteries and generators), some of which will have capacity to deliver limited services

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